4 - CONSTRUCTION PLANS

This section covers public improvement, grading, landscape and irrigation and construction permit plans related to a major or minor subdivision. This section covers form, content and processing of construction plans. Although elements of this section may apply to construction plans for private improvements, the processing procedure is limited to that related to subdivisions. Submittal and processing requirements may differ for private improvement plans. For a major subdivision, the Subdivision Improvement Agreement (SIA) represents a permit to construct public improvements associated the subdivision. For minor subdivisions, a separate Construction Permit (PC) is issued (see section 4-400).

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CONSTRUCTION PLANS
SECTION 4-100
IMPROVEMENT PLANS

4-100 IMPROVEMENT PLANS

4-101 Purpose

Improvement plans detail construction of public improvements within existing public right-of-way or within existing easements for the purpose of constructing and maintaining public improvements. These plans are generally associated with a tentative or final map for a major subdivision.

4-102 Form and Content

4-102.1 General

(1) Improvement plans shall be prepared by a registered civil engineer and shall be accurate engineering drawings which are technically correct and complete and shall show in detail all improvements required to be constructed or installed, including site grading unless such grading is covered by separate grading plans and permit.

(2) Design criteria for the public improvements must conform to the standards set forth in Section 3 of this manual, Chula Vista Municipal Code Ordinances, Chula Vista Standard Drawings and Standard Specifications, CALTRANS Highway Design Manual, the San Diego County Regional Standard Drawings and other specifications as may be deemed appropriate by the City Engineer.

(3) Improvement plans shall be clearly and legibly drawn on 24" x 36" (61cm X 91cm)(Chula Vista Standard D sheet) mylar (min. 3mils (0.08mm) thick) using black drawing ink only.

(4) Hand lettering shall be a minimum of 1/8" (3mm) in height. Typed or computer generated lettering shall be a minimum of 1/10" (2.5mm) in height.

(5) Minimum scale shall be 1" = 40' (1cm = 10m).

(6) The engineer of work shall sign and stamp each sheet of the plans including engineer's registration number and expiration date.

(7) Each sheet shall contain a title block as described in Section 4-102.2

(8) Final improvement plans shall be submitted in digital format according to Section 1-500. Digital files shall be exact copies of the approved improvement plans.

4-102.2 Title Block; - Each sheet shall contain the Chula Vista standard title block which includes the information described below. Standard D sheet size mylars with the title block are available from the City either with or without profile grid.

(1) Title - Subdivision designation, the type of improvement shown on that sheet such as sewer, street, drainage, etc., and the location or extent of such improvements.

(2) Drawing Numbers - Drawing numbers will be assigned by the Engineering Division usually after the first plan check.

(3) Sheet Numbers - Sheets shall be numbered consecutively. Each sheet shall also show the total number of sheets in the plan.

(4) Work Order Number - The work order number shall be located above the title block over the block for drawing numbers. The work order will be assigned by the City and will be included in the first plan check comments.

(5) City Signatures - Each sheet of the approved plans will contain the following City signatures:

a) At approval, each sheet will be signed by a Senior Civil Engineer and the City Engineer. The cover sheet must allow a minimum 2" high X 5" wide clear area above the City approval signature block to accommodate the Senior Civil Engineer's and City Engineer's stamps.

b) Office, Field, Traffic - These blocks will be initialed when approved by the appropriate City personnel.

(6) Engineer of Work Signatures - This block must include the initials of the people responsible for designing, drafting and checking the plans as well as the signature and registration number of the engineer of work and the date signed.

(7) Scale - Indicate the horizontal and vertical scale for each sheet.

(8) Bench Mark - Bench mark description shall be shown on each sheet of the plans. Bench marks shall conform to Section 2-302.3 of this manual

(9) Revisions - The reference number, description, approval signature and date shall be shown for each plan revision or construction change (see Section 4-500) on each sheet affected. New mylars may not be submitted for construction changes unless otherwise approved by the City Engineer.

(10) Reference Drawings - The drawing numbers for all existing and adjacent improvements shall be shown on each sheet.

(11) Construction Record - The construction record shall include contractor's signature, inspectors' signature and date the plans are as-built (see Section 4-500).

4-102.3 Title Sheet(s); - The title sheet for improvement plans shall contain the following items:

(1) Title - The subdivision name and unit number shall be placed in bold print at the top center of the title sheet.

(2) A vicinity map with north arrow and scale shall be indicated.

(3) A key map drawn to a scale of 1" = 200' (1cm=20m) shall be shown on the cover sheet which depicts the general plan of the subdivision to include roads adjacent to the subdivision, street light and fire hydrant locations, overall sewer plan, overall drainage plan; and, if applicable, the area of improvement covered by each sheet. The key map shall have a north arrow and scale shown.

(4) Work to be done and legend. Items in the work to be done will vary with the improvements to be constructed. Symbols used in legend shall conform with City of Chula Vista and San Diego Regional Standard symbols.

(5) A typical cross-section of each class of existing and proposed streets. The typical section shall indicate structural section to conform to the paving note. It shall also show roadway widths, right of way widths, side slopes, shoulders, curbs, gutters, sidewalks, medians, typical street light and fire hydrant locations and relationship of centerline grade to top of curb grade. The typical section shall also make reference to elevations as shown on the profiles. Typical street cross sections shall comply with City of Chula Vista Street Design Standards.

(6) A concise legal description to define the location of the proposed subdivision.

(7) Tax Assessor's parcel number(s).

(8) The name, address, telephone number and signature of the record owner or owners.

(9) The name, address and telephone number of the subdivider, if other than owner(s).

(10) Construction Notes - General, Special, Water, Sewer, Fire shall be added to the title sheet as necessary.

(11) NPDES Certificate. An NPDES certificate is required on all improvement plans unless an NPDES permit was previously obtained, and still in effect, for advance grading operations. (See Section 4-209)

(12) Engineer of Work Certificate. This certificate shall be complete and signed by the Engineer of Work as part of the as-built process (see Section 4-500).

(13) Declaration of Responsible Charge. This certificate shall be signed by the Engineer of Work prior to City approval.

(14) Traffic Control Plan - Construction projects involving work within the public rights of way in the City of Chula Vista shall require a determination by the City Engineer relative to the need for preparation of Traffic Control Plans. If Traffic Control Plans are required, they must be approved prior to the issuance of Construction or Utility Permits, or the finalizing of a final map.

(15) Other Agency Signatures. If approval is required from other agencies (i.e. water company), the appropriate signature block for those agencies shall be added as deemed necessary by those agencies. Other agency signatures must be obtained prior to City approval of the improvement plans.

4-102.4 Plan and Profile Sheets - General

The plan and profile sheets of the improvement plans shall show sufficient detail of all proposed improvements and facilities to facilitate proper construction and inspection and at a minimum shall include the following:

(1) North arrow.

(2) Map Scale in words or figures shall be shown on both the plan and profile views. In additions, the scale shall be shown graphically on the plan view, in the event the map is enlarged or reduced.

(3) Horizontal scale for plan and profile shall be the same and be either 1" = 10' (1cm=1m), 1" = 20' (1cm=2m) or 1" = 40' (1cm=5m).

(4) Stationing shall generally be from left to right.

(5) "As-Built" Certificate (to be completed through as-built process).

(6) All data tables shall be complete (except sewer lateral table).

(7) Existing Conditions - Existing improvements adjacent to the area of work or to be met by proposed work shall be shown by dashed lines. Any existing improvements to be relocated or removed shall be so noted on the plan view sheet containing said improvements.

4-102.5 Plan View

(1) All existing underground utilities or facilities (sewer, water, gas, drainage, curb ramps, driveways) shall be shown, labeled, and dimensioned on both the plan and profile. Existing underground utilities shall be extended beyond the limits of work at least 50 feet (15m) on both plan and profile.

(2) New gas distribution systems to be constructed along with subdivision improvements shall not be shown.

(3) When possible with clarity, street, sewer and drainage designs shall be shown upon the same sheet.

(4) Where drainage systems are complex and extend beyond the street right of way, they shall be shown on separate sheets depicting the complete system.

(5) Driveway locations shall be shown for each lot.

(6) Manholes shall be numbered on both plan and profile sheets.

(7) Provide a sewer lateral data table. Each residential lot shall be listed in said table. The table shall include the following information for each lot:

a) lot number
b) invert elevation at main
c) drop to main
d) length in feet
e) invert elevation at property line
f) slope of lateral
g) top of curb elevation

h) depth below top of curb at property line
i) sewer station
j) whether a backflow preventor is required

(8) Lot number and backflow preventor columns of the sewer lateral table shall be complete prior to approval. Remaining information will be added during the "as-built" process. Sewer laterals and backflow preventors shall also be shown on plan views (see Section 4-500).

(9) Existing right of way, property lines, and improvements, in or adjacent to area to be improved.

(10) New right of way, property lines, and lot numbers of area being improved.

(11) Streets.

a) Centerline shown by standard symbol. The centerline shall be stationed at each 500 feet (200m) with "tick marks" at 100' (30m) intervals, and B.C.'s and E.C.'s shall be stationed. Provide data tables for street centerlines.

b) Street names shown within each street.

c) That portion of the street to be paved or overlaid shall be shaded and dimensioned.

(12) Show curb return street stationing at the beginning and end of each curb return. Provide data tables for all curbs. Curb dimensioning shall be from face of curb to centerline of street.

(13) For major street to major street intersections and higher, show a detail at 20 scale of the diagonals of the intersection with contours at 0.2 ft. intervals or spot elevations to evaluate driveability and drainage to the satisfaction of the City Engineer. The detail shall include the area through the curb returns.

(14) Show pedestrian ramps at each curb return and show one pedestrian ramp opposite either curb return at T-intersections. Final location of pedestrian ramps at T-intersections will be determined by the City's Traffic Section.

(15) Sidewalks with dimensions showing width and location.

(16) Street light locations and stations, conduits, service points and pull boxes shall be shown. Final locations of street lights will be determined by the City's Traffic Section.

(17) Show flowline elevations of cross gutters per CVCS 2.

(18) Fire hydrant locations and stations shall be shown.

(19) The following information shall be shown for all drainage facilities:

a) Size
b) Length
c) Grade
d) Material
e) Design flows and velocities and hydraulic grade lines for 50-year storm event
f) Centerline and storm drain stationing
g) Encasement and special bedding requirements.
h) Location by street stationing and dimensions from centerline of street.
i) Data tables for all storm drain pipe showing alignment data.
j) Details for all drainage facilities that are not to be constructed in accordance with Standard Drawings including detail plan view, cross-sections, and typical sections.
k) Drainage pipe gauge, or D-load may be stated in the general notes. If a general note relative to pipe gauge or D-load is used, then only segments of pipe which don't conform to the standard note need be indicated on the profile of the pipe.

(20) Show drainage, sewer, street tree planting and pedestrian easements. Detail location of facility within easements, width of easement and relationship of easement to nearby or adjacent lot lines.

(21) Sewer mains and manholes shall be shown on centerline of streets except when otherwise approved by the City Engineer. Provide data tables for all sewer pipe and number all sewer manholes.

(22) Water systems shown will be reviewed for conflicts with other facilities only. Water company approval of water facilities is required prior to City approval of the plans.

(23) Irrigation lines and facilities within the public right of way shall be shown.

(24) Clearly identify all City or County boundaries

(25) Erosion Control Plans shall include the following:

a) A map of the entire subdivision at a minimum scale of 1” = 200’ (1 cm = 20m) showing placement of all gravel bags, desilting basins, desilting devices, and silt fences.
b) Temporary desilting basins in the street with a table showing the spacing for the gravel bag rows.
c) Cross section of the street showing the height of the gravel bags and weirs, street centerlines, curblines, right of way line and undercut or subgrade line.
d) Temporary desilting devices at all inlets with a separate detail for all sump conditions.
e) Construction entrance details.

4-102.6 Profile View

(1) Vertical scale for profile shall be either 1" = 2' (1cm=1m) or 1" = 4' (1cm=2m) unless more than one profile break will occur per plan sheet; then a scale of 1" = 8' (1cm=5m) may be used.

(2) Symmetrical streets may be shown with a single profile with a note clearly stating that the curb elevation is a specific distance higher or lower than the centerline grade. Knuckles, cul-de-sacs, curb inlet locations, curb returns, roadway transitions and roads in superelevation shall have separate curb profiles.. Unsymmetrical streets shall be shown by three profiles, one for centerline and one for each curb. Curb profiles shall extend a minimum of 50 feet (15m) beyond the point of symmetry.

(3) The original ground profile at centerline shall be shown.

(4) For street widening show profiles for the existing centerline, edge of pavement and new curbs. Engineer of work shall also submit separate drawings showing cross sections of the street widening at approximately 50 foot intervals.

(5) Show percent grade for all straight grades, on all profiles.

(6) Stations and elevations shall be shown at a maximum of 100 foot stations at match lines, curb returns, points on vertical curves, street intersections, and at any other location necessary for clarification of plans or construction of improvements.

(7) Centerline, crown-line and curb lines of cul-de-sacs and knuckles shall be clearly indicated on profiles.

(8) Vertical curves shall be clearly indicated to show:

a) Length of vertical curve.
b) Tangent grades
c) Stations and elevations at B.V.C., E.V.C., P.I., high/low point and at a maximum of 25 foot (8m) stationing.

(9) Curb return profiles shall be shown separately with elevations shown for top of curb at P.C.R.'s, quarter points, and high/low points. Show the street name and percent grade of tangents at each end of curb return. Show the curb return PI elevation based on a projection of the grade along the main (through) street. Show the calculated grade from the side street PCR elevation along the tangent to this PI elevation. The grade break at the PCR shall not exceed 1%. The curb return shall be designed in a plane.

(10) Show size, type, percent grade and length between manholes on proposed sewers. Show elevations at manhole rims, manhole flow lines and vertical curves as specified above. Show sewer profile on same sheet as sewer plan.

(11) Culvert and storm drain profiles shall be shown and labeled. Where possible, culvert profiles shall be shown on same sheet as the culvert plan. Show existing ground line, finish ground lines, percent grade of flow line, inlet and outlet elevations of the conduits, catch basins and cleanouts and size, class or gauge of conduits.

(12) Top of curb elevations shall be given at both ends of curb inlets, at the end of curb transitions and at centerline of the box. Street centerline stations shall be shown at the center of each curb inlet.

4-103 Processing

4-103.1 Submittal Requirements

(1) Submittals will only be accepted in conformance with Section 5-203 of this manual

(2) First Submittal - The first submittal package includes but is not limited to the following:

a) Initial plan check deposit per Section 5-100.

b) Executed Development Agreement (unless previously filed)

c) Blueline copies of Improvement Plan per Section 5-200

d) Hydraulic computations including dry-lane calculations.

e) Soils Report or Geotechnical Report (if required)-Original & 2 microfiche copies.

f) Design data and/or calculations for special structures.

g) Engineer's estimates for construction of public improvements (may be submitted with subsequent plan check). Construction cost estimates shall be calculated using the current "City of San Diego Unit Price List for Estimating Subdivision and Permit Bonds" as accepted by the City of Chula Vista.

h) Landscaping and Irrigation Plans.

i) Other items as specified by City Council in approval of associated tentative map (if any).

(3) Subsequent Plan Check - Subsequent plan check submittals shall include but not be limited to:

a) 2 revised blueline copies;

b) Original City plan check comments;

c) Other information and documentation as requested.

(4) Additional Items Required Prior to Approval:

a) Inspection and plan check deposits as required by the City Engineer;

b) Improvement Bonds. Approved bond amounts shall be based on the Engineer's approved construction cost estimate and in accordance with Section 18.16.220 of the City's Municipal Code.

c) Easements for off-site improvements.

d) Any other required deeds and/or easements.

e) Compliance with all outstanding conditions of approval related to improvements ((if any).

f) Signed mylars of the improvement plan. Improvement plans must be signed by all parties except the City prior to City approval.

(5) See Table 5-202.5 for Plan and Bonding requirements.

4-103.2 Approval

(1) When it has been determined that the improvement plans are complete, technically correct, and in accord with the final map or parcel map, and all required signatures obtained, then the improvement plans will be approved by the City Engineer.

(2) Approval of the improvement plans does not constitute a permit to construct. If the improvement plans are associated with a tentative or final subdivision map, the corresponding Subdivision Improvement Agreement (SIA) is the permit to construct. Otherwise, an advance permit or construction permit is required.

4-103.3 Print Package - Signed improvement plans will be released only to blueprint companies bonded with the City. Engineer of work shall be responsible to provide the City with a full size mylar set of the improvement plans (min. 3mils (0.08mm) thick) and the required number of blueline copies (see Section 5-201).

4-103.4 Partial Approval - The subdivider may receive partial approval of the improvement plans for storm drain approval only if required for an advance grading permit. Such partial approval shall be clearly shown on each sheet with a separate and permanent signature block labeled "STORM DRAIN APPROVAL ONLY".

4-103.5 Advance Permit - An advance permit to construct public improvements associated with a tentative or final subdivision map prior to approval of the SIA may be issued upon agreement between the City and the developer. In such cases, all bonds, bond riders, letters of permission, inspection deposits and print packages must be submitted and accepted by the City prior to issuance of the construction permit. A construction permit number (PC) will be issued for advance permits.

4-103.6 As-Builts - shall be processed in accordance with Section 4-500. The following shall be shown as on all as-built improvement plans:

(1) Show sewer lateral on the plan view indicating the distance from the closest property line and complete the sewer lateral table.

(2) Back flow preventors must be shown on both the lateral table and the plan view.

(3) Structural street sections listed with limits indicated for each change.

(4) Street light conduit locations, pull boxes and power sources.

(5) Show driveways including station of driveway centerline and width of driveway.

(6) Sewer lateral cleanouts at property lines.

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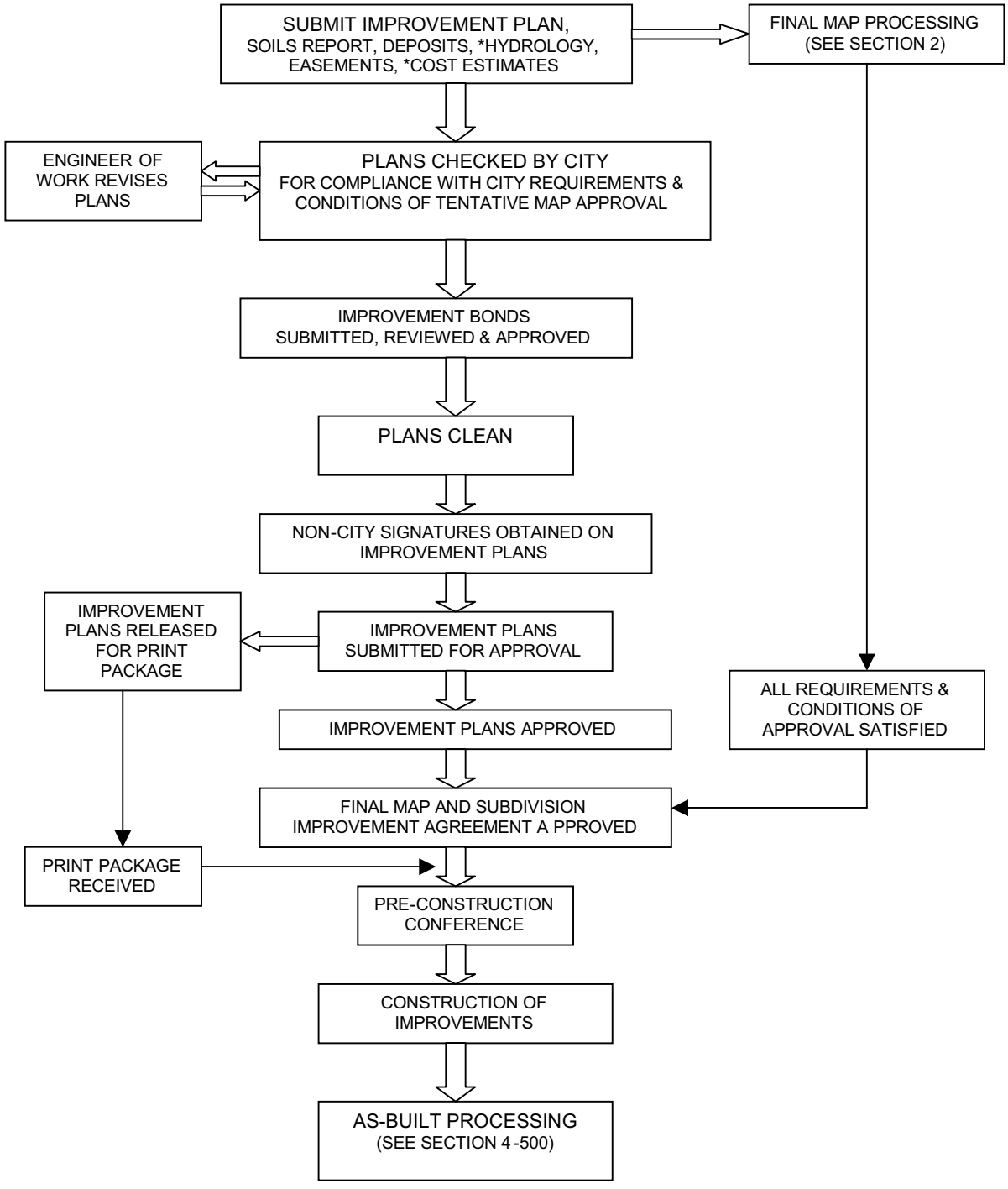
4-103.7 IMPROVEMENT PLAN FLOW CHART



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4-103.8 SAMPLE TITLE SHEET FOR IMPROVEMENT PLANS

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4-104 IMPROVEMENT PLAN CHECKLIST CITY OF CHULA VISTA

FOR OFFICE USE ONLY
DE- _____
FILE: _____
INITIALS: _____
DATE: _____

SUBDIVISION _____

_____

TRACT NO.: _____

Property Owner(s): _____
&
Address _____

Engineer/Surveyor: _____

PHONE: _____

(References are to City of Chula Vista Subdivision Manual)

ITEM	CHECK	REMARKS
4-103.1 SUBMITTAL PACKAGE – Plans, Reports, Statements & Exhibits		
a. Initial Deposit — **Amount** **$** _____		
b. Development Processing Agreement executed		
c. Blueline copies		
d. Hydraulic Report including dry lane calc's		
e. Soils Report – 1 copy (if required)		
f. Design data and/or calculations for special structures		
g. Engineers' construction cost estimate		
h. Inspection deposit		
i. Improvement bonds		
j. Easements and/or deeds required		
k. Mylar (min. 3 mils thick)		
l. Print Package		

ITEM	CHECK	REMARKS
4-102 FORM AND CONTENT - General		
1. Legibly drawn on mylar, sepia or other approved media		
2. 24" x 36" (61cm x 91cm) with 1" (2.5cm) margin		
3. Lettering size – 0.10 in (2.5mm) computer; 1/8" (3mm) hand in black drawn ink		
4. Scale: 1" = 40' (1cm = 10m) minimum in both words and graphically and north arrow		
5. Engineer of Work signature and stamp on each sheet		
4-102.2 TITLE BLOCK		
1. Title – Subdivision Name, type of improvement & location		
2. Drawing Nos. – add when assigned		
3. Sheet Numbers		
4. Work Order Number – add when assigned		
5. City Approval Signature – when approved		
6. Office, Field, Traffic Initials – when approved		
7. Engineer of Work Signatures – designer, drafter, plan checker, Engineer of Work Signature and Stamp		
8. Scale		
9. Bench Mark		
10. Revisions – complete when as-built		
11. Reference Drawings		
12. Construction Record – complete when as-built		
4-102.3 TITLE SHEET		
1. Title – subdivision name and unit number		
2. Vicinity map with north arrow and scale		
3. Key map – including street lights, sewer, storm drain, fire hydrant, streets, street names, area covered by each sheet		

ITEM	CHECK	REMARKS
4. Work to be Done & Legend		
5. Typical street cross sections		
6. Legal Description		
7. Tax Assessor's Parcel Number(s)		
8. Owners' name, address, phone & signature		
9. Developers' name, address, phone & signature (if other than owner)		
10. Construction Notes – General, Special, Water, Sewer, Fire, etc. (see Section 4-107)		
11. NPDES Certificate (if required)		
12. Engineer of Work (as-built) certificate		
13. Declaration of Responsible Charge		
14. Determine need for traffic control plan in public streets		
15. Other agency signatures		
4-102.4 PLAN & PROFILE SHEETS – General		
1. North arrow		
2. Scale (min. 1" = 100' (1cm = 10m)) shown both in words or figures and graphically		
3. Horizontal scale for plan view identical to horizontal scale for profile view		
4. Centerline and key points stationed		
5. "As-Built" certificate on each sheet		
6. Existing Conditions shown as dashed lines		
7. All data tables complete		
4-102.5 PLAN VIEW		
1. Proposed as solid lines, existing as dashed lines		
2. Tied to street centerline		

ITEM	CHECK	REMARKS
3. City/County boundaries identified		
4. Highways, streets, roads – names, grades, widths, if private designated as such		
5. Sidewalks, pavement, curbs and gutters, street lights, driveways		
6. Easements – location, purpose, size, public or private and recording information		
7. All utilities shown and labeled and dimensione d		
8. Driveway locations shown		
9. Manholes numbered		
10. Sewer Lateral Table		
11. Existing right of way, property lines and improvements		
12. Street centerline, names, stationing, paving		
13. Curb returns with street stationing at PCR's shown		
14. Pedestrian ramps shown		
15. Sidewalks dimensioned showing width and location		
16. Street light locations and stations, pull box, conduit, wire location and size, service point location		
17. Flow line elevations of all cross gutters shown		
18. Fire hydrant locations and stations shown		
19. All drainage facilities including size, length, grade, material, etc. shown		
20. All easements shown		
21. Water systems shown		
22. Irrigation lines and facilities within right of way shown		
23. City and/or County boundaries shown		
4-102.6 PROFILE VIEW		
1. Vertical scale 1" = 2' (1cm = 1m) or 1" = 4' (1cm = 2m)		

ITEM	CHECK	REMARKS
2. Appropriate curb profiles shown (See pg 4 -100)		
3. Original ground profile shown		
4. Street centerline and/or edge of pavement (if widening) shown		
5. Percent grades shown		
6. Stations & elevations at 100' intervals, BCs, Ecs, PCRs, street intersections, etc. shown		
7. Centerline, crown line and curb line of cul -de-sacs and knuckles shown		
8. Vertical curve data shown (l ength, tangent grades, stations, & elevations of BVC, EVC, high/low point, and at 25 foot (8m) intervals)		
9. Separate profiles for curb returns shown		
10. Sewer main size, type, percent grade and length between manholes, manhole stations, rim eleva tions, inverts shown		
11. Culvert & storm drain profiles shown & labeled		
12. Top of curb elevations at both ends of curb inlets, at the end of curb transitions and at the center of each inlet shown		

4-105 IMPROVEMENT PLANS TYPICAL NOTES AND CERTIFICATES

GENERAL NOTES

1. ALL UNDERGROUND UTILITIES AND LATERALS TO BE INSTALLED BEFORE CONSTRUCTION OF CURB, SIDEWALK, OR SURFACING OF STREETS.

2. SIDEWALK IS TO BE SIX INCHES THICK THROUGH ALL DRIVEWAYS.

3. ALL WORK SHALL BE COMPLETED PER THESE PLANS AND APPROVED REVISIONS. ALL CHANGES OR REVISIONS THERETO MUST BE APPROVED BY THE CITY ENGINEER, IN WRITING, PRIOR TO ANY REQUEST FOR INSPECTION.

4. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITY PIPES AND STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS, TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN HEREON, HOWEVER, THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT ANY EXISTING UTILITIES OR STRUCTURES LOCATED AT THE WORK SITE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT UNDERGROUND SERVICE ALERT (PHONE 1-800-422-4133) TWO (2) WORKING DAYS IN ADVANCE OF ANY EXCAVATION FOR THE MARK OUT OF THE LOCATION OF UTILITIES AND NOTIFICATION OF COMMENCEMENT OF WORK. FOR ANY QUESTIONS REGARDING THE MARK OUT OF UNDERGROUND UTILITIES, THE CONTRACTOR SHOULD CONTACT THE RESPECTIVE UTILITY COMPANY:

STREET LIGHT OR SIGNAL LIGHT CONDUIT	CITY OF CHULA VISTA	(619) 397-6163
SEWER OR STORM DRAIN	CITY OF CHULA VISTA	
	VERIFICATION	(619) 691-5024
	NOTIFICATION	(619) 397-6000
GAS & ELECTRIC	SAN DIEGO GAS & ELECTRIC	1-800-227-2600
WATER	OTAY WATER DISTRICT	(619) 670-2222
	SWEETWATER AUTHORITY	(619) 420-1413
TELEPHONE	PACIFIC BELL	(619) 266-4683
TELEVISION	COX CABLE OF SAN DIEGO	(619) 263-9251
	ULTRONICS	(619) 476-0177

5. CITY OF CHULA VISTA INSPECTION NOTICE:

   a. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM THE CITY ENGINEER 2 WORKING DAYS IN ADVANCE OF COMMENCEMENT OF WORK. PHONE: 397-6128.

   b. THE CONTRACTOR SHALL GIVE 24 HOURS (ONE WORKING DAY) NOTICE ON CALLS FOR INSPECTION. PHONE: 397-6128.

   c. ANY WORK PERFORMED WITHOUT BENEFIT OF INSPECTION SHALL BE SUBJECT TO REJECTION AND REMOVAL AT CONTRACTOR'S EXPENSE.

d. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION AND ELEVATION OF EXISTING UNDERGROUND WORK PRIOR TO THE EXCAVATION FOR INSTALLATION OF NEW UNDERGROUND WORK.

6. STREET LIGHT NOTE:
THE STREET LIGHTS AND SERVICE POINTS SHOWN HEREON ARE APPROXIMATE ONLY, SERVICE POINTS ARE SUBJECT TO REVISION BY SAN DIEGO GAS AND ELECTRIC COMPANY FINAL PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE PROPER SERVICES TO THE STREET LIGHTS SHOWN ON THE PLAN ACCORDING TO ALL THE APPLICABLE CITY OF CHULA VISTA PLANS AND SPECIFICATIONS. THE DEVELOPER SHALL BE RESPONSIBLE FOR PROVIDING CONDUIT AND CONDUCTORS FROM STREET LIGHTS TO APPROVED SERVICE POINTS FURNISHED BY SAN DIEGO GAS AND ELECTRIC COMPANY. CONDUIT RUNS AND CONDUCTOR SIZE FROM STREET LIGHTS TO SERVICE POINTS SHALL BE SHOWN ON THESE PLANS AND APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION. STREET LIGHTING CONDUIT SHALL BE 1-1/2" MIN. PVC (SCHEDULE 80). FINAL LOCATION AND SIZE OF STREET LIGHTS, CONDUIT, WIRE AND PULL BOXES SHALL BE APPROVED PRIOR TO BEGINNING OF CONSTRUCTION.

7. NEITHER THE OWNER NOR THE ENGINEER OF WORK WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT, AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS DURING CONSTRUCTION OPERATIONS.

8. LOCATION AND TYPE OF STREET TREES FOR EACH LOT TO BE DETERMINED BY THE PUBLIC WORKS DEPARTMENT - STREET OPERATIONS.

9. MAXIMUM DISTANCE BETWEEN PULL BOXES IS 190 FEET.

10. ALL UTILITIES SHALL HAVE A MINIMUM OF 90% RELATIVE COMPACTION IN ALL TRENCH BACKFILL.

11. THE CONTRACTOR SHALL BE RESPONSIBLE THAT ANY MONUMENT OR BENCH MARK WHICH IS DISTURBED OR DESTROYED SHALL BE RE-ESTABLISHED AND REPLACED BY A REGISTERED CIVIL ENGINEER WHO IS ALLOWED TO PRACTICE SURVEYING OR A LICENSED LAND SURVEYOR AND A CORNER RECORD, RECORD OF SURVEY, OR CERTIFICATE OF CORRECTION FILED AS REQUIRED BY THE LAND SURVEYOR'S ACT.

12. AS-BUILT DRAWINGS:
A SET OF BLUELINE PRINTS AND A SET OF SPECIFICATIONS SHALL BE KEPT AT ALL TIMES ON WHICH ALL CHANGES OR VARIATIONS IN THE WORK, INCLUDING ALL UTILITIES, ARE TO BE RECORDED.

13. CONTRACTOR SHALL FURNISH TO THE ENGINEER OF WORK AS-BUILT PLANS FOR ALL NEW IMPROVEMENTS SHOWN ON THESE PLANS FOR SUBMITTAL TO THE CITY ENGINEER FOR APPROVAL.

14. THE OWNER MUST OBTAIN AN EXCAVATION PERMIT FROM THE DIVISION OF OCCUPATIONAL SAFETY AND HEALTH (D.O.S.H.) PRIOR TO START OF CONSTRUCTION.

15. ALL STORM DRAIN PIPE SHALL BE1500 D-LOAD UNLESS OTHERWISE SHOWN ON THESE PLANS.

16. DUST GENERATED BY CONSTRUCTION ACTIVITIES SHALL COMPLY WITH LOCAL DUST CONTROL AND UNIFORM BUILDING CODE (UBC) REQUIREMENTS WHICH INCLUDE DUST CONTROL MEASURES FOR CONSTRUCTION SITES. DUST REDUCING MEASURES SHALL INCLUDE REGULAR WATERING OF GRADED SURFACES AND RESTRICTION OF ALL CONSTRUCTION VEHICLES AND EQUIPMENT TO TRAVEL ALONG ESTABLISHED AND REGULARLY WATERED ROADWAYS.

SPECIAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE TO INSURE THAT ALL SLOPES, STREETS, UTILITIES, AND STORM DRAINS ARE BUILT IN ACCORDANCE WITH THESE PLANS. IF THERE IS ANY QUESTION REGARDING THESE PLANS OR FIELD STAKES, THE CONTRACTOR SHALL REQUEST AN INTERPRETATION BEFORE DOING ANY WORK BY CALLING THE ENGINEER OF WORK AT_____ AND THE CITY INSPECTOR. THE CONTRACTOR SHALL ALSO TAKE THE NECESSARY STEPS TO PROTECT THE PROJECT AND ADJACENT PROPERTY FROM ANY EROSION AND SILTATION THAT RESULT FROM CONTRACTOR'S OPERATIONS BY APPROPRIATE MEANS (SAND BAGS, HAY BALES, TEMPORARY DESILTING BASINS, SILT FENCES, DIKES, SHORING, ETC.) UNTIL SUCH TIME THAT THE TOTAL PROJECT IS COMPLETED AND ACCEPTED FOR MAINTENANCE BY WHATEVER OWNER, AGENCY OR ASSOCIATION IS TO BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE.

2. CONTRACTOR WILL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES.

3. LOCATION AND ELEVATIONS OF IMPROVEMENTS TO BE MET (OR AVOIDED) BY WORK TO BE DONE SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION OF NEW WORK. CONTRACTOR SHALL REPORT TO THE ENGINEER OR CITY INSPECTOR ANY DISCREPANCIES BETWEEN FIELD MEASUREMENTS AND THE PLANS.

4. BEFORE EXCAVATING FOR THIS CONTRACT, THE CONTRACTOR SHALL FIELD VERIFY LOCATION OF UNDERGROUND UTILITIES. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO OTHER EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS.

5. CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER EXISTING LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.

6. CONTRACTOR AGREES: TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER, THE ENGINEER AND THE CITY OF CHULA VISTA HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING THEREFROM LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER OR THE CITY OF CHULA VISTA.

7. CONTRACTOR IS RESPONSIBLE FOR HAVING TRAFFIC CONTROL PLANS APPROVED BY THE CITY ENGINEER PRIOR TO COMMENCING ANY WORK IN THE PUBLIC RIGHT OF WAY.

8. CONTRACTOR SHALL REPAIR ALL DESTROYED OR DAMAGED EXISTING SURFACE IMPROVEMENTS WITH IMPROVEMENTS EQUAL OR SUPERIOR.

9. ALL DEMOLISHED MATERIAL SHALL BE REMOVED FROM THE JOB SITE TO AN APPROVED DISPOSAL SITE.

10. THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL PROPOSED CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS AND THE CITY ENGINEER.

11. STOP SIGN AND STREET NAME SIGN POLES SHALL BE CONSTRUCTED CONCURRENT WITH SIDEWALK CONSTRUCTION IN ACCORDANCE WITH CVDS 14 AND 32.

SEWER NOTES

1. SEWER SHOWN ON THESE PLANS IS P.V.C. SEWER PIPE PER ASTM D-3034 TYPE PSM SDR-35, UNLESS OTHERWISE NOTED, WITH MINIMUM PIPE STIFFNESS OF 46 WHEN TESTED AT FIVE PERCENT DEFLECTION. GRAVITY P.V.C. SEWER SHALL HAVE A 3/4 INCH MAXIMUM CRUSHED ROCK BACKFILL TO ONE FOOT ABOVE THE PIPE.

2. AS AN ALTERNATE TO P.V.C. AN A.B.S COMPOSITE SEWER PIPE CONFORMING TO ASTM D-2680 WITH TYPE S.C. COUPLERS MAY BE USED IN SIZES EIGHT INCHES AND ABOVE. FOUR INCHES OR SIX INCHES SHALL BE A.B.S. SOLID WALL WITH F/DY NOT LESS THAN 150 PSI PER ASTM D- 2751.

3. SEWER CONTRACTOR SHALL MAKE CERTAIN THAT ALL MANHOLES ARE CONSTRUCTED IN EXACT LOCATION SHOWN, AND WITH THE OFFSET CONE POSITIONED AWAY FROM SURVEY MONUMENT LOCATION ADJACENT THERETO.

4. THE PIPE BEDDING SHALL BE IN ACCORDANCE WITH REGIONAL STANDARD DRAWING NO. S-4 (TYPE C).

5. THE P.V.C. AND A.B.S. PIPE CONNECTIONS TO MANHOLES SHALL HAVE MANHOLE WATER STOP GASKETS AT EACH CONNECTION TO MANHOLES. THESE WATER STOP GASKETS SHALL BE CONSIDERED TO BE INCLUDED IN THE UNIT PRICE BID FOR MANHOLES.

6. RIM ELEVATIONS SHOWN ARE FOR INFORMATION ONLY. ALL MANHOLES SHALL BE ADJUSTED TO FINISHED GRADE, FINAL PAVING ELEVATIONS AND CROSS SLOPES ACCORDING TO CHULA VISTA STANDARDS AND SPECIAL PROVISIONS.

7. EACH UNIT SHALL RECEIVE ONE SEWER LATERAL WHICH WILL BE SHOWN ON AS-BUILT PLANS.

8. PIPE CONNECTION TO MANHOLE (MH) SHALL COMPLY WITH REGIONAL STANDARDS.

9. EACH SEWER LATERAL SHALL RECEIVE ONE CLEANOUT INSTALLED AT PROPERTY LINE.

FIRE NOTES

1. COMMERCIAL FIRE HYDRANTS SHALL HAVE ONE (1) 4-INCH OUTLET AND TWO (2) 2 1/2 INCH OUTLETS. RESIDENTIAL FIRE HYDRANTS SHALL HAVE ONE (1) FOUR INCH OUTLET AND TWO (2) 2-1/2 INCH OUTLETS. INSTALLATION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

2. FIRE HYDRANT SPACING SHALL BE:
   - 300 FEET FOR COMMERCIAL BUILDINGS, APARTMENTS & CONDOMINIUMS.
   - 500 FEET FOR RESIDENTIAL
   - 1,000 FEET ON PARKWAYS – ALTERNATING SIDES OF STREET.

3. PROTECTION OF FIRE HYDRANTS TO BE PROVIDED AND MAINTAINED AT ALL TIMES.

4. WATER SUPPLY SHALL BE INSTALLED AND OPERABLE PRIOR TO DELIVERY OF COMBUSTIBLE MATERIALS TO THE SITE.

5. WATER SUPPLY WILL CONSIST OF FIRE HYDRANTS AS APPROVED AND INDICATED BY THE FIRE DEPARTMENT DURING PLANCHECK. A TEMPORARY SUPPLY MAY BE ALLOWED AND WILL INCLUDE ABOVE GROUND PIPING (HIGH LINE) CONNECTED TO AN UNDERGROUND SUPPLY. ANY TEMPORARY WATER SUPPLY SOURCE IS SUBJECT TO PRIOR APPROVAL FROM THE FIRE MARSHAL.

6. ACCESS FOR FIRE APPARATUS TO BE PROVIDED AND MAINTAINED TO WITHIN 150 FEET OF ANY FINISHED OR UNFINISHED BUILDING MATERIAL OR COMBUSTIBLE CONSTRUCTION MATERIAL.

7. ACCESS TO FIRE HYDRANTS TO BE PROVIDED AND MAINTAINED AT ALL TIMES. HYDRANTS SHALL NOT BE OBSTRUCTED IN ANY MANNER. CURBS SHALL BE PAINTED RED A MINIMUM OF 15 FEET ON EACH SIDE OF HYDRANT.

8. THE FIRE FLOWS SHALL BE DETERMINED BY THE FIRE MARSHAL.

9. TEMPORARY STREET NAME SIGNS SHALL BE PROVIDED BEFORE CONSTRUCTION BEGINS AND SHALL BE THE SOLE RESPONSIBILITY OF THE DEVELOPER.

MISCELLANEOUS NOTES

TO BE INCLUDED AS SEPARATE ITEMS ON COVER SHEET)

DIG ALERT NOTICE

SECTION 4216/4217 OF THE GOVERNMENT CODE REQUIRES THAT DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT TOLL FREE 1-800-422-4133 AT LEAST TWO WORKING DAYS BEFORE YOU DIG.

IMPORTANT NOTICE
SECTION 4215/4217 OF THE GOVERNMENT CODE REQUIRES THAT A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. PER YOUR DIG ALERT I.D. NUMBER CALL UNDERGROUND SERVICE ALERT TOLL FREE 1-800-422-4133 TWO WORKING DAYS BEFORE YOU DIG.

PAVING NOTE
THE OFFICE OF THE CITY ENGINEER SHALL DESIGN ALL STRUCTURAL STREET SECTIONS BASED ON THE "R" VALUE METHOD SPECIFIED BY THE CITY ENGINEER. THE SOIL TEST SHALL BE PERFORMED BY A REGISTERED CIVIL ENGINEER WHOSE PRIMARY PROFESSIONAL ACTIVITY IS PERFORMING SUCH TESTS. TEST RESULTS SHALL BE PROVIDED TO THE CITY BY THE SUBDIVIDER IN THE NUMBER AND AT SUCH LOCATIONS AND TIMES AS DETERMINED BY THE CITY ENGINEER. WHERE HEAVY GRADING IS PROPOSED, GATHERING OF SAMPLES SHALL BE DELAYED UNTIL ROUGH SUBGRADE IS MADE. MINIMUM BASE THICKNESS ON ALL STREET CLASSIFICATIONS SHALL BE PER SECTION 3-405.3 OF THE SUBDIVISION MANUAL. BASE MATERIAL SHALL CONFORM TO CRUSHED AGGREGATE BASE, 3/4 INCH MAXIMUM, OR APPROVED ALTERNATIVE, AS SET FORTH IN THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, SECTION 200-2.2 LATEST EDITION. ALL ASPHALT CONCRETE SURFACES SHALL BE SEAL COATED IN ACCORDANCE WITH SECTION 302-5.10 OF THE CITY OF CHULA VISTA STANDARD SPECIAL PROVISIONS.

(For alleys and alley approaches only) WHERE R VALUE TESTS ARE NOT PROVIDED OR RESULTS ARE NOT ADEQUATE FOR 5.5-INCH (14 CM) THICK CONCRETE, ALLEYS AND ALLEY TYPE DRIVEWAY APPROACHES SHALL BE CONSTRUCTED OF 8-INCH (20 CM) THICK CONCRETE REINFORCED WITH 6-INCH BY 6-INCH (15CM X 15 CM) 4/4 WOVEN WIRE MESH OR EQUIVALENT.

SPECIAL STREET LIGHT NOTE
STREET LIGHT CONSTRUCTION SHALL NOT PROCEED UNTIL SERVICE POINTS ARE KNOWN AND STREET LIGHTING CONDUIT, PULL BOXES, AND WIRE SIZES ARE SHOWN ON THESE PLANS TO THE SATISFACTION OF THE CITY ENGINEER. STREET LIGHT WIRING AND SERVICE POINTS SHALL BE ADDED TO THESE PLANS BY A CONSTRUCTION CHANGE APPROVED BY THE CITY ENGINEER.

INSTALL 30 AMP CIRCUIT BREAKER FOR UNMETERED SAFETY LIGHTING.

TRAFFIC CONTROL

IF THE NEED FOR TRAFFIC CONTROL BECOMES APPARENT AFTER THE ISSUANCE OF A PERMIT OR START OF WORK, THE INSPECTION SECTION MAY REQUIRE THE PREPARATION OF SUCH A PLAN. IF SUCH A DETERMINATION IS MADE BY THE INSPECTION SECTION, UPON NOTIFICATION OF THE SUPERINTENDENT OF THE JOB IN QUESTION, WORK IN THE RIGHTS OF WAY SHALL CEASE UNTIL SUCH TIME AS TRAFFIC CONTROL PLANS HAVE BEEN APPROVED BY TRAFFIC ENGINEERING.

TRAFFIC CONTROL STRIPING AND MARKINGS NOTE

ANY TRAFFIC SIGNS, STRIPING AND/OR PAVEMENT MARKINGS REMOVED OR OTHERWISE OBLITERATED BY THE CONTRACTOR DURING THE COURSE OF CONSTRUCTION SHALL BE REPLACED BY PERMANENT TRAFFIC SIGNS, STRIPING AND/OR PAVEMENT MARKINGS, BY THE CONTRACTOR, AT CONTRACTOR'S EXPENSE, AND AS SOON AS PRACTICAL AFTER COMPLETION OF THE PERMITTED CONSTRUCTION, AND IN NO CASE LATER THAN TWO (2) WEEKS AFTER COMPLETION OF THE WORK PERMITTED. PROPER CONTROL, ALIGNMENT, LAY-OUT AND REPLACEMENT OF EXISTING TRAFFIC SIGNS, STRIPING AND/OR PAVEMENT MARKINGS SHALL LIKEWISE BE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.

ALL PERMANENT TRAFFIC STRIPING AND/OR PAVEMENT MARKINGS SHALL CONFORM TO THE STANDARDS FOR TRAFFIC STRIPES AND PAVEMENT MARKINGS PROVIDED IN THE CALTRANS STANDARD SPECIFICATION SECTIONS 84-1 "GENERAL" AND 84-3 "PAINTED TRAFFIC STRIPES AND PAVEMENT MARKINGS" IN THE MOST RECENTLY PUBLISHED VERSION OF THE CALTRANS STANDARD SPECIFICATIONS. PERMANENT PAVEMENT MARKERS AND THEIR APPLICATION SHALL CONFORM TO SECTION 85, "PAVEMENT MARKERS", OF THE CALTRANS STANDARD SPECIFICATIONS AND SHALL BE .70-INCH MINIMUM. NON-REFLECTIVE OR "LOW PROFILE" TYPE MARKERS SHALL NOT BE ACCEPTED WITHOUT PERMISSION, IN ADVANCE, OF THE CITY ENGINEER. PAINT FOR TRAFFIC STRIPES AND PAVEMENT MARKINGS SHALL CONFORM TO THE STATE SPECIFICATION NUMBER 8010-21C-30, RAPID DRY WATER-BORNE, WHITE OR YELLOW. GLASS BEADS SHALL CONFORM TO STATE SPECIFICATION NUMBER 8010-21C-22 TYPE II.

IN THE EVENT THAT CONSTRUCTION CAUSE REMOVAL OR OBLITERATION OF TRAFFIC SIGNS, STRIPING AND/OR PAVEMENT MARKINGS, AND THE CONSTRUCTION IS NOT COMPLETED DURING THE SAME DAY TO FINISHED SURFACE CONDITION, OR PERMANENT TRAFFIC SIGNS, STRIPING AND/OR PAVEMENT MARKERS CANNOT BE REPLACED BEFORE THE END OF EACH WORK DAY, TEMPORARY RAISED PAVEMENT MARKERS (REFLECTIVE TABS), OF THE SAME COLOR AS THE EXISTING OR PERMANENT OR DAMAGED TRAFFIC STRIPING MAY BE USED IN THE PLACE OF PERMANENT TRAFFIC MARKINGS. IN NO CASE SHALL THE TEMPORARY MARKINGS REMAIN IN PLACE OF PERMANENT TRAFFIC MARKINGS. IN NO CASE SHALL THE TEMPORARY MARKINGS REMAIN IN PLACE IN EXCESS OF TWO (2) WEEKS FROM THE COMPLETION OF PERMITTED CONSTRUCTION. SIGNS MAY BE TEMPORARILY PLACED ON TYPE III BARRICADES UNTIL CONSTRUCTION IS COMPLETED. STREETS SHALL BE TEMPORARILY OR PERMANENTLY MARKED AT THE END OF EACH WORK DAY.

TEMPORARY RAISED PAVEMENT MARKERS (TABS) SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONSIST OF STIMSONITE MODEL 300 AND 301 CHIP-SEAL/TEMPORARY OVERLAY MARKERS (YELLOW OR WHITE) OR AN APPROVED EQUAL AND SHALL BE PLACED BY THE CONTRACTOR, AND MAINTAINED IN GOOD CONDITION BY THE CONTRACTOR UNTIL SUCH TIME AS PERMANENT TRAFFIC STRIPING AND

PAVEMENT MARKINGS ARE RESTORED. UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER, ALL TEMPORARY RAISED PAVEMENT MARKERS SHALL BE REMOVED BY THE CONTRACTOR AFTER THE INSTALLATION OR REPLACEMENT OF PERMANENT STRIPING AND/OR PAVEMENT MARKINGS.

WORK TO BE DONE

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE IN ACCORDANCE WITH THESE PLANS, THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (2000 EDITIONS) COMMONLY REFERRED TO AS THE "GREEN BOOK", AND 2000 SUPPLEMENT, AND SAN DIEGO REGIONAL SUPPLEMENT AMENDMENTS (2000), SAN DIEGO AREA REGIONAL STANDARD DRAWINGS (2000), STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD PLANS (JULY 1999) AND STANDARD SPECIFICATIONS (JULY 1999), STATE OF CALIFORNIA MANUAL OF TRAFFIC CONTROLS (1996), DESIGN AND CONSTRUCTION STANDARDS OF THE CITY OF CHULA VISTA (2002), AND CITY OF CHULA VISTA STANDARD SPECIAL PROVISIONS, ALL AS ADOPTED BY THE CITY OF CHULA VISTA, ARE MADE PART OF THE SPECIFICATIONS. ANY CHANGES OR REVISIONS THEREFROM SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO ANY REQUEST FOR INSPECTION.

(Note: Contact City's Land Development Section to verify date of latest edition adopted by Council prior to first submittal of plans.)

CERTIFICATES

OWNERS CERTIFICATE

IT IS AGREED THAT FIELD CONDITIONS MAY REQUIRE CHANGES TO THESE PLANS. IT IS FURTHER AGREED THAT THE OWNER (DEVELOPER) SHALL HAVE THE ENGINEER OF WORK MAKE SUCH CHANGES, ALTERATIONS OR ADDITIONS TO THESE PLANS WHICH THE ENGINEER OF WORK DETERMINES ARE NECESSARY AND DESIRABLE FOR THE PROPER COMPLETION OF THE IMPROVEMENTS. ALL PLAN CHANGES SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION.

I FURTHER AGREE TO COMMENCE WORK ON ANY IMPROVEMENTS SHOWN ON THESE PLANS WITHIN EXISTING CITY RIGHT-OF-WAY WITHIN 60 DAYS AFTER ISSUANCE OF THE CONSTRUCTION PERMIT AND TO PURSUE SUCH WORK ACTIVELY ON EVERY NORMAL WORKING DAY UNTIL COMPLETED, IRRESPECTIVE AND INDEPENDENT OF ANY OTHER WORK ASSOCIATED WITH THIS PROJECT OR UNDER MY CONTROL.

NAME: _____

ADDRESS: _____

PHONE: _____

BY: _____ DATE: _____

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXECISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS. I UNDERSTAND THAT THE CHECK OF THE PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF CHULA VISTA AND WATER DISTRICT IS CONFINED TO REVIEW ONLY AND DOES NOT RELIEVE ME AS ENGINEER OF WORK, OF MY RESPONSIBLITIES FOR THE PROJECT DESIGN.

(FIRM NAME & ADDRESS)

BY: _____ DATE _____
(ENGINEER'S NAME, LICENSE NO. & LICENSE EXPIRATION)

AS-BUILT CERTIFICATES

ENGINEER OF WORK (ON TITLE SHEET ONLY)

I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE IMPROVEMENTS SHOWN ON THIS SET OF PLANS (SHEET 1 THROUGH SHEET ___) HAVE BEEN INSTALLED AND CONSTRUCTED IN SUBSTANTIAL CONFORMANCE WITH SAID PLANS, APPROPRIATE STANDARDS AND ANY DISCRETIONARY APPROVAL(S) FOR THE PROJECT.

SIGNED: _____ DATE: _____

PRINTED NAME: _____ P.E. NO. _____
DISCIPLINE: _____ MY REGISTRATION EXPIRES: _____

ON EACH PLAN SHEET

"AS BUILT"	
_____ (SIGNATURE)	DATE _____
_____ (PRINTED NAME)	P.E. NO. _____
MY REGISTRATION EXPIRES: _____	DISCIPLINE: _____

PARTIAL APPROVAL FOR STORM DRAIN AND/OR SEWER

FOR STORM DRAIN (OR SEWER) APPROVAL ONLY

Submitted _____	Approved _____
By: _____	By: _____
SENIOR CIVIL ENGINEER	CITY ENGINEER

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